Appl. No. 09/894,854
Amdt. dated June 10, 2004
Reply to Office Action of March 25, 2004

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

      1.   (Currently Amended) In a wireless communication system having mobile subscriber units **that may be in either static or mobile modes** and a plurality of fixed network devices located at cell sites **in a single network for communicating with either static or mobile subscriber units**, a method for acquiring and managing a plurality of communication modes at each subscriber unit comprising:

      first sensing whether the subscriber unit is static or mobile from the nature and quality of the communication links with nearby network devices; thereafter

      enabling an acquisition protocol suited to static mode and mobile mode for said subscriber unit; and

      enabling an acquisition protocol suited to mobile mode for mobile subscriber units and static mode for fixed subscriber units.

      2.   (Original) The method according to claim 1 further comprising:

      initiating procedures to change acquisition mode from static mode to mobile mode upon failure of the subscriber unit to sense a preselected number of consecutive scheduled polling packets sent by a linked device.

      3.   (Original) The method according to claim 1 further comprising:

      initiating procedures to determine whether it is appropriate to change acquisition mode from static mode to mobile mode upon failure to transmit a preselected number of consecutive data packets

      4.   (Original) The method according to claim 3 further comprising:

      upon decision to change to mobile mode, foregoing best node qualification.

      5.   (Original) The method according to claim 3 further comprising:

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upon decision to change to mobile mode, foregoing registration of location with a name service.

6.   (Original) The method according to claim 3 further comprising:

upon decision to change to mobile mode, transmitting sync packets at a higher repetitivity.

7.   (Original) The method according to claim 1 further comprising:

upon decision to change to mobile mode, foregoing third party query processes.

8.   (Original) The method according to claim 3, further comprising:

upon decision to change to mobile mode, foregoing best node qualification;

foregoing registration of location with a name service;

foregoing third party query processes; and

transmitting sync packets at a higher repetitivity.

9.   (Original) The method according to claim 1, further comprising:

upon a subscriber unit changing its BMC, causing said subscriber unit to send forwarding packets to its former bestnode, and

updating a new corresponding path to a gateway resource.

10.   (New) In a network communication system having subscriber units that may be either static or mobile and a plurality of fixed network devices located at cell sites, with at least some of the network devices for communicating with either static or mobile subscriber units, a method for acquiring and managing a plurality of communication modes at each subscriber unit comprising:

first sensing whether the subscriber unit is static or mobile from the nature and quality of the communication links with nearby network devices; thereafter

enabling a first acquisition protocol suited to static mode and mobile mode for said subscriber unit; and

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enabling a second acquisition protocol suited to mobile mode for mobile subscriber units and static mode for fixed subscriber units.

11.   (New) In a wireless network communication system having subscriber units that may be either static or mobile and a plurality of fixed network devices located at cell sites, with the network devices in a single network and for communicating with both static and mobile subscriber units, a method for acquiring and managing a plurality of communication modes at each subscriber unit comprising:

first sensing whether the subscriber unit is static or mobile from the nature and quality of the communication links with nearby network devices; and thereafter

enabling an acquisition protocol suited to mobile mode for mobile subscriber units and static mode for fixed subscriber units, with the mode based on the nature and quality of the communication links.

12.   (New) In a wireless mesh network communication system having subscriber units, some of which are at least at times mobile, and having a plurality of fixed network devices located at cell sites, with at least some of the network devices for communicating with both static and mobile subscriber units, an acquisition protocol for use in communicating between the subscriber units and the fixed network devices, comprising:

a static mode for use when a subscriber device is fixed and not mobile; and

a mobile mode for use when a subscriber device is mobile, the mobile mode being lower speed and trimmed downed from the static mode.

13.   (New) The acquisition protocol of claim 12, wherein the subscriber unit is sensed as static or mobile based on the nature and quality of the communication links with nearby network devices.

14.   (New) The acquisition protocol of claim 13, wherein procedures are initiated to determine whether it is appropriate to change the acquisition mode from static mode

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to mobile mode upon failure of the subscriber unit to sense a preselected number of consecutive scheduled polling packets sent by a linked device.

15.   (New) The acquisition protocol of claim 13, wherein procedures are initiated to determine whether it is appropriate to change acquisition mode from static mode to mobile mode upon failure to transmit a preselected number of consecutive data packets

16.   (New) The acquisition protocol of claim 15, wherein upon determination to change to mobile mode, foregoing best node qualification.

17.   (New) The acquisition protocol of claim 15, wherein upon determination to change to mobile mode, foregoing registration of location with a name service.

18.   (New) The acquisition protocol of claim 15, wherein upon determination to change to mobile mode, transmitting sync packets at a higher repetitivity.

19.   (New) The acquisition protocol of claim 15, wherein upon determination to change to mobile mode, foregoing third party query processes.

20.   (New) The acquisition protocol of claim 15, wherein upon determination to change to mobile mode, foregoing best node qualification, foregoing registration of location with a name service, foregoing third party query processes, and transmitting sync packets at a higher repetitivity.

21.   (New) The acquisition protocol of claim 15, wherein:

upon a subscriber unit changing its BMC, causing said subscriber unit to send forwarding packets to its former bestnode, and

updating a new corresponding path to a gateway resource.